



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

BEATTY *et al.*

Appl. No.: 09/547,945

Filed: April 12, 2000

For: **Electrophysiology Therapy
Catheter**

Confirmation No.: 5616

Art Unit: 3737

Examiner: Smith, Ruth S.

Atty. Docket: 2384.002000C

Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying IDS Forms are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- ☒ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- ☐ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date

of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.

- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ c. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$_____ in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee.

Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$_____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.
- ☐ 6. A concise explanation of the relevance of the non-English language document(s) appears below in accordance with 37 C.F.R. § 1.98(a)(3).

- ☒ 7. Copies of documents NPL1-NPL67 are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S. patents and patent application publications cited on the attached IDS Forms are submitted.
- ☐ 8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. , filed , which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).
- ☐ 9. It is expected that the examiner will review the prosecution and cited art in the parent application no. in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Michelle K. Holoubek
Attorney for Applicant
Registration No. 54,179

Date: 2/28/06

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	09/547,945
Filing Date	April 12, 2000
First Named Inventor	Graydon Beatty
Art Unit	3737
Examiner Name	Smith, Ruth S.
Attorney Docket Number	2384.002000C

Sheet 1 of 2

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	US1	4,173,228	11-06-1979	Van Steenwyk, <i>et al.</i>	
	US2	4,431,005	02-14-1984	McCormick	
	US3	4,478,223	10-23-1984	Allor	
	US4	4,613,866	09-23-1986	Blood	
	US5	4,697,595	10-06-1987	Breyer, <i>et al.</i>	
	US6	4,699,147	10-13-1987	Chilson, <i>et al.</i>	
	US7	4,821,731	04-18-1989	Martinelli, <i>et al.</i>	
	US8	4,898,181	02-06-1990	Kessler	
	US9	4,945,305	07-31-1990	Blood	
	US10	5,042,486	08-27-1991	Pfeiler, <i>et al.</i>	
	US11	5,054,492	10-08-1991	Scribner, <i>et al.</i>	
	US12	5,054,496	10-08-1991	Wen, <i>et al.</i>	
	US13	5,056,517	10-15-1991	Fenici	
	US14	5,081,993	01-21-1992	Kitney, <i>et al.</i>	
	US15	5,158,092	10-27-1992	Glance	
	US16	5,161,536	11-10-1992	Vilkomerson, <i>et al.</i>	
	US17	5,211,165	05-18-1993	Dumoulin, <i>et al.</i>	
	US18	5,220,924	06-22-1993	Frazin	
	US19	5,228,442	07-20-1993	Imran	
	US20	5,273,038	12-28-1993	Beavin	

FOREIGN PATENT DOCUMENTS

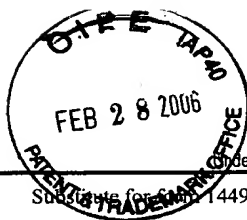
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	FP1					
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	FP3					
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	FP8					
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for Sheet 1449/PTO

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Art Unit	3737
Examiner Name	Smith, Ruth S.
Attorney Docket Number	2384.002000C

Sheet 2 of 2

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		Number-Kind Code ² (if known)			
	US21	5,295,484	03-22-1994	Marcus, <i>et al.</i>	
	US22	5,323,781	06-28-1994	Ideker, <i>et al.</i>	
	US23	5,324,284	06-28-1994	Imran	
	US24	5,305,745	04-26-1994	Zacouto	
	US25	5,325,860	07-05-1994	Seward, <i>et al.</i>	
	US26	5,372,138	12-13-1994	Crowley, <i>et al.</i>	
	US27	5,377,678	01-03-1995	Dumoulin, <i>et al.</i>	
	US28	5,385,146	01-31-1995	Goldreyer	
	US29	5,391,199	02-21-1995	Ben-Haim	
	US30	5,433,198	07-18-1995	Desai	
	US31	5,558,091	09-24-1996	Acker, <i>et al.</i>	
	US32	5,687,737	11-18-1997	Branham, <i>et al.</i>	
	US33	5,713,363	02-03-1998	Seward, <i>et al.</i>	
	US34	5,738,096	04-14-1998	Ben-Haim	
	US35	5,840,031	11-24-1998	Crowley	
	US36	6,004,269	12-21-1999	Crowley, <i>et al.</i>	
	US37	6,603,996	08-05-2003	Beatty, <i>et al.</i>	
	US38				
	US39				
	US40				

FOREIGN PATENT DOCUMENTS

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	FP10					
	FP11					
	FP12					
	FP13					
	FP14					
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Sheet	1	of	7	Attorney Docket Number	2384.002000C

NON PATENT LITERATURE DOCUMENTS			
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	NPL1	ARISI, G., <i>et al.</i> , "Localization Of Ectopic Ventricular Focuses By Means Of A Diameter Multielectrode Catheter," <i>Advances in Electrocardiology</i> , Elsevier Science Publishers B.V. (Biomedical Division), Z. Antaloczy <i>et al.</i> , editors, pp. 67-70 (1990).	
	NPL2	BRANHAM B., <i>et al.</i> , "A System For Accurate Interactive 3-D Display Of Cardiac Electrical Activity," <i>Computers in Cardiology</i> , IEEE Computer Society Press 0276-6547/92, pp. 335-338 (Oct. 11-14, 1992).	
	NPL3	BREYER, B. and CIKES, I., "Ultrasonically Marked Catheter - A Method For Positive Echographic Catheter Position Identification," <i>Med. & Biol. Eng. & Comput.</i> , 22:268-271 (May 1984).	
	NPL4	BUCKLES, D., <i>et al.</i> , "Computer-Enhanced Mapping Of Activation Sequences In The Surgical Treatment Of Supraventricular Arrhythmias," <i>PACE</i> , Vol. 13, Part I, pp. 1401-1407 (November 1990).	
	NPL5	CIKES, I., <i>et al.</i> , "Cardiac Catheterisation Guided By Ultrasound," <i>Journal of the American College of Cardiology</i> , Vol. 3, No. 2, p. 564 (February 1984).	
	NPL6	CIKES, I. and BREYER, B., "Complete Cardiac Catheterisation Guided By Ultrasound," <i>European Heart Journal</i> , vol. 4 (suppl. E), p. 21 (1983).	
	NPL7	CIKES I., "Interventional Echocardiography," <i>5th Symposium on Echocardiography</i> , Rotterdam, Abstracts p. 38 (1983).	
	NPL8	CIKES, I., <i>et al.</i> , "Interventional Echocardiography," <i>Interventional Ultrasound</i> , 1st edition, chapter 25, Munksgaard, Copenhagen, pp. 160-168 (1985).	
	NPL9	COX, J., <i>et al.</i> , "Surgery For Atrial Fibrillation," <i>Cardiac Surgery: State of the Art Reviews</i> , Vol. 4, No. 1, pp. 207-217 (1990).	
	NPL10	DE BAKKER, J., <i>et al.</i> , "Endocardial Mapping By Simultaneous Recording Of Endocardial Electrograms During Cardiac Surgery For Ventricular Aneurysm," <i>Journal of American College of Cardiology</i> , Vol. 2, No. 5, pp. 947-53 (Nov. 1983).	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	09/547,945
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				Examiner Name	Smith, Ruth S.
Sheet	2	of	7	Attorney Docket Number	2384.002000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	NPL11	DERFUS, D. and PILKINGTON, T., "Assessing The Effect Of Uncertainty In Intracavitary Electrode Position On Endocardial Potential Estimates," <i>IEEE Transactions on Biomedical Engineering</i> , Vol. 39, No. 7, pp. 676-681 (July 1992).	
	NPL12	DERFUS, D., <i>et al.</i> , "Calculating Intracavitary Potentials from Measured Endocardial Potentials," <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , Vol. 12, No. 2, p. 635 (1990).	
	NPL13	DERFUS, D., <i>et al.</i> , "A Comparison of Measured and Calculated Intracavitary Potentials for Electrical Stimuli in the Exposed Dog Heart," <i>IEEE Transactions on Biomedical Engineering</i> , Vol. 39, No. 11, pp. 1192-1206 (Nov. 1992).	
	NPL14	DERFUS, D. and PILKINGTON, T., "Effect Of Intracavitary Electrode Position On Endocardial Potential Estimates," <i>IEEE Engineering in Medicine & Biology Society 10th Annual International Conference</i> , pp. 185-186 (1988).	
	NPL15	DESAI, J., <i>et al.</i> , "Orthogonal Electrode Catheter Array for Mapping of Endocardial Focal Site of Ventricular Activation," <i>PACE</i> , Vol. 14, Part I, pp. 557-574 (April 1991).	
	NPL16	DOWNAR, E., <i>et al.</i> , "Endocardial Mapping of Ventricular Tachycardia in the Intact Human Ventricle: Evidence for Reentrant Mechanisms," <i>Journal of the American College of Cardiology</i> , Vol. 11, No. 4, pp. 783-91 (April 1988).	
	NPL17	DURRER, D. and VAN DER TWEEL, L., "Spread of Activation in the Left Ventricular Wall of the Dog. II.: Activation Conditions at the Epicardial Surface," <i>American Heart Journal</i> , pp. 192-203 (Aug. 1953).	
	NPL18	FANN, J., <i>et al.</i> , "Endocardial Activation Mapping and Endocardial Pace-Mapping Using a Balloon Apparatus," <i>Am. J. Cardiol.</i> , Vol. 55, pp. 1076-1083 (1985).	
	NPL19	FENICI, R. and MELILLO, G., "Biomagnetically Localizable Multipurpose Catheter And Method For MCG Guided Intracardiac Electrophysiology, Biopsy And Ablation Of Cardiac Arrhythmias," <i>International Journal of Cardiac Imaging</i> , vol. 7, pp. 207-215 (1991).	
	NPL20	FENICI, R., <i>et al.</i> , "Catheter Ablation Of Cardiac Arrhythmias: Magnetocardiographic Localization Of Electrocatheters And Arrhythmogenic Foci," <i>8th International Congress "The New Frontiers of Arrhythmias," Marilleva, Italy</i> , pp. 723-731 (Jan. 31-Feb. 6, 1988).	
Examiner Signature			Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet	3	of	7	Attorney Docket Number	2384.002000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	NPL21	FENICI, R., <i>et al.</i> , "Clinical Magnetocardiography: 10 Years Experience At The Catholic University," <i>International Journal of Cardiac Imaging</i> , Vol. 7, pp. 151-167 (1991).	
	NPL22	FENICI, R. and MELILLO, G., "Magnetocardiography: Ventricular Arrhythmias," <i>European Heart Journal</i> , vol. 14 (Suppl. E), pp. 53-60 (1993).	
	NPL23	HARADA, A., <i>et al.</i> , "Potential Distribution Mapping: New Method For Precise Localization Of Intramural Septal Origin Of Ventricular Tachycardia," <i>Circulation</i> , Vol. 78 (Suppl. III), No. 5, pp. III-137-III-147 (Nov. 1988).	
	NPL24	HAUER, R., <i>et al.</i> , "Endocardial Catheter Mapping: Validation Of A Cineradiographic Method For Accurate Localization Of Left Ventricular Sites," <i>Circulation</i> , Vol. 74, No. 4, pp. 862-868 (October 1986).	
	NPL25	HAUER, R., <i>et al.</i> , "Endocardial Catheter Mapping: Wire Skeleton Technique For Representation Of Computed Arrhythmogenic Sites Compared With Intraoperative Mapping," <i>Circulation</i> , Vol. 74, No. 6, pp. 1346-1354 (Dec. 1986).	
	NPL26	IDEKER, R., <i>et al.</i> , "A Computerized Method For The Rapid Display Of Ventricular Activation During The Intraoperative Study Of Arrhythmias," <i>Circulation</i> , Vol. 59, No. 3, pp. 449-458 (March 1979).	
	NPL27	IDEKER, R., <i>et al.</i> , "Simultaneous Multichannel Cardiac Mapping Systems," <i>PACE</i> , Vol. 10, pp. 281-292 (March-April 1987).	
	NPL28	IDEKER, R., "A Study To Evaluate The Ability Of A Multielectrode Intracavitary Probe To Determine The Site Of Origin Of Ventricular Tachycardia," <i>Basic Arrhythmia Laboratory, Engineering Research Center in Emerging Cardiovascular Technologies</i> , Duke University, pp. 1-3.	
	NPL29	JACKMAN, W., <i>et al.</i> , "New Catheter Technique For Recording Left Free-Wall Accessory Atrioventricular Pathway Activation: Identification Of Pathway Fiber Orientation," <i>Circulation</i> , Vol. 78, No. 3, pp. 598-611 (Sep. 1988).	
	NPL30	JOSEPHSON, M., <i>Clinical Cardiac Electrophysiology: Techniques and Interpretations</i> , 2nd ed., pp. 566-580, 608-615, and 770-783 (1993).	

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				Filing Date	April 12, 2000
				First Named Inventor	Graydon Beatty
				Art Unit	3737
				Examiner Name	Smith, Ruth S.
Sheet	4	of	7	Attorney Docket Number	2384.002000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	NPL31	JOSEPHSON, M., <i>et al.</i> , "Comparison Of Endocardial Catheter Mapping With Intraoperative Mapping Of Ventricular Tachycardia," <i>Circulation</i> , Vol. 61, No. 2, pp. 395-404 (February 1980).	
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	NPL34	JOSEPHSON, M., <i>et al.</i> , "Ventricular Activation During Ventricular Endocardial Pacing. II. Role Of Pace-Mapping To Localize Origin Of Ventricular Tachycardia," <i>The American Journal of Cardiology</i> , Vol. 50, pp. 11-22, (July 1982).	
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	NPL37	KHOURY, D. and RUDY, Y., "Reconstruction Of Endocardial Potentials From Intracavitary Probe Potentials: A Model Study," <i>IEEE 0276-6547/92</i> , pp. 9-12 (1992).	
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	NPL41	LU, S. and EIHO, S., "Compound 3-D Visualization Of Reconstructed Coronary Arteries, Left Ventricle And Aorta From Biplane X-Ray Angiograms," <i>Computers in Cardiology</i> , IEEE Computer Society Press, 0276-6547/92, pp. 535-538 (Oct. 11-14, 1992).	
	NPL42	MACCHI, E., <i>et al.</i> , Intracavitary Mapping: An Improved Method For Locating The Site Of Origin Of Ectopic Ventricular Beats By Means Of A Mathematical Model," <i>IEEE Engineering in Medicine & Biology Society 10th Annual International Conference</i> , pp. 0187-0188 (1988).	
	NPL43	MACCHI, E., <i>et al.</i> , "Localization Of Ventricular Ectopic Beats From Intracavitary Potential Distributions: An Inverse Model In Terms Of Sources," <i>IEEE Engineering in Medicine & Biology Society 11th Annual International Conference</i> , pp. 0191-0192 (1989).	
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	NPL45	MOSHAGE, W., <i>et al.</i> , "Biomagnetic Localization Of Ventricular Arrhythmias," <i>Radiology</i> , Vol. 180, No. 3, pp. 685-692 (September 1991).	
	NPL46	MOURA, L., <i>et al.</i> , "A Microcomputer-Based Cardiac Mapping System For Recurrent Ventricular Tachycardia Surgery," <i>Computers in Cardiology</i> IEEE Computer Society Press, 0276-6547/92, pp. 431-434 (Oct. 11-14, 1992).	
	NPL47	PAGÉ, P., <i>et al.</i> , "Surgical Treatment Of Ventricular Tachycardia: Regional Cryoablation Guided By Computerized Epicardial And Endocardial Mapping," <i>Circulation</i> , Vol. 80 (Suppl. I), No. 3, pp. I-124-I-134 (Sep. 1989).	
	NPL48	PILKINGTON, T., <i>et al.</i> , "Feasibility Of Estimating Endocardial Potentials From Cavity Potentials," <i>IEEE Ninth Annual Conference of the Engineering in Medicine and Biology Society</i> , IEEE, pp.1875-1876 (1987).	
	NPL49	POGWIZD, S. and CORR, P., "Reentrant And Nonreentrant Mechanisms Contribute To Arrhythmogenesis During Early Myocardial Ischemia: Results Using Three-Dimensional Mapping," <i>Circulation Research</i> , Vol. 61, No. 3, pp. 352-371 (September 1987).	

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	NPL50	POLLAK, S., <i>et al.</i> , "Intraoperative Identification Of A Radiofrequency Lesion Allowing Validation Of Catheter Mapping Of Ventricular Tachycardia With A Computerized Balloon Mapping System," <i>PACE</i> , Vol. 15, pp. 854-858 (June 1992).	
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	NPL52	RUDY, Y. and PLONSEY, R., "Annotations: A Note On 'The Brody-Effect'," <i>J. Electrocardiology</i> , Vol. 11, No. 1, pp. 87-90 (1978).	
	NPL53	RUDY, Y. and PLONSEY, R., "The Eccentric Spheres Model As The Basis For A Study Of The Rule Of Geometry And Inhomogeneities In Electrocardiography," <i>IEEE Transactions on Biomedical Engineering</i> , Vol. BME-26, No. 7, pp. 392-399 (July 1979).	
	NPL54	RUDY, Y., <i>et al.</i> , "The Effects Of Variations In Conductivity And Geometrical Parameters On The Electrocardiogram, Using An Eccentric Spheres Model," <i>Circulation Research</i> , Vol. 44, No. 1, pp. 104-111 (January 1979).	
	NPL55	RUDY, Y. <i>et al.</i> , "Inverse Reconstruction Of Epicardial And Endocardial Potentials: The Use Of Temporal Information," <i>IEEE</i> , pp. 2006-2008 (1992).	
	NPL56	SIMPSON, E., <i>et al.</i> , "Three-Dimensional Visualization Of Electrical Variables In The Ventricular Wall Of The Heart," <i>IEEE</i> , TH0311-1/90, pp. 190-194, (1990).	
	NPL57	SMITH, W., <i>et al.</i> , "A Computer System for the Intraoperative Mapping of Ventricular Arrhythmias," <i>Computers and Biomedical Research, an International Journal</i> , Vol. 13, No. 1, pp. 61-72 (Feb. 1980).	
	NPL58	SMITH, W. and IDEKER, R., "Computer Techniques For Epicardial And Endocardial Mapping," <i>Progress in Cardiovascular Diseases</i> , Vol. 26, No. 1, pp. 15-32 (July/August 1983).	

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	NPL59	SPACH, M. and BARR R., "Analysis Of Ventricular Activation And Repolarization From Intramural And Epicardial Potential Distributions For Ectopic Beats In The Intact Dog," <i>Circulation Research</i> , Vol. 37, pp. 830-843 (December 1975).	
	NPL60	STELLBRINK, C., <i>et al.</i> , "Potential Of Intracardiac Ultrasonography As An Adjunct For Mapping And Ablation," <i>American Heart Journal</i> , Vol. 127, No. 4, Part 2, pp. 1095-1101 (April 1994).	
	NPL61	TACCARDI, B., <i>et al.</i> , "A New Intracavitary Probe For Detecting The Site Of Origin Of Ectopic Ventricular Beats During One Cardiac Cycle," <i>Circulation</i> , Vol. 75, No. 1, pp. 272-281 (Jan. 1987).	
	NPL62	TACCARDI, B., <i>et al.</i> , "Potential Distributions And Excitation Time Maps Recorded With High Spatial Resolution From The Entire Ventricular Surface Of Exposed Dog Hearts," <i>Computers in Cardiology</i> , IEEE Computer Society Press, 0276-6547/92, pp. 1-4 (Oct. 11-14, 1992).	
	NPL63	TANIGAWA, M., <i>et al.</i> , "Prolonged And Fractionated Right Atrial Electrograms During Sinus Rhythm In Patients With Paroxysmal Atrial Fibrillation And Sick Sinus Node Syndrome," <i>Journal of the American College of Cardiology</i> , Vol. 17, No. 2, pp. 403-408 (Feb. 1991).	
	NPL64	TWEDDELL, J., <i>et al.</i> , "Potential Mapping In Septal Tachycardia: Evaluation Of A New Intraoperative Mapping Technique," <i>Circulation</i> , Vol. 80 (Suppl. I), No. 3, pp. I-97- I-108 (September 1989).	
	NPL65	WITKOWSKI, F. and Corr P., "An Automated Simultaneous Transmural Cardiac Mapping System," <i>American Journal of Physiology</i> , Vol. 247, pp. H661-H668 (1984).	
	NPL66	YOUNG, M., <i>et al.</i> , "A Real-Time Data Acquisition System For The Display Of Three Dimensional Cardiac Activation Maps," <i>Computers in Cardiology</i> , IEEE Computer Society Press, 0276-6547/92, pp. 331-334 (Oct. 11-14, 1992).	
	NPL67	YUAN, S., <i>et al.</i> , "Localization Of Cardiac Arrhythmias: Conventional Noninvasive Methods," <i>International Journal of Cardiac Imaging</i> , Vol. 7, pp. 193-205 (1991).	

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